

In the Claims:

Please cancel Claims 25-37 without prejudice or disclaimer of the subject matter recited therein and please amend Claims 1-11, 13-22, 24, and 38-45 as follows:

1. (Currently Amended) An image processing apparatus for generating image data of a document by processing document data representing the document and described in a predetermined structured description language, comprising:

analysis means for analyzing said the document data and recognizing font size information contained in the document data, which is the font size information being information on the font size applied to a character or a character train contained in the document represented by contained in said the document data, and for recognizing the character or the character train contained in the document represented by the document data to which the font size information is applied;

instruction input means for entering information relating to a standard font size at the output of an image indicated by said document data by allotment to a to be used for formatting the document data for printing on at least one physical page; and

drawing means for executing a drawing process in such a manner that a data representing the character or a the character train recognized by said analysis means is outputted for printing on the at least one physical page outputted with a at the standard font size entered by said instruction input means instead of the font size represented by the font size information contained in the document data.

2. (Currently Amended) An apparatus according to claim 1, wherein:

    said analysis means calculates a magnification change rate utilizing the font size information contained in said the document data, and information relating to indicating the standard font size entered by said instruction input means; and

    said drawing means executes a the drawing process by changing the magnification of a the character or a the character train, to which said font size information is applied, by said the magnification change rate so as to output for printing on the at least one physical page data representing achieve output the character or the character train with said at the standard font size.

3. (Currently Amended) An apparatus according to claim 1, wherein:

said the document data include information for designating a specified font size to for a specified character, or a specified character train recognizable recognized by said analysis means; and

    said drawing means executes the drawing process in such a manner that a data representing the specified character or a the specified character train, to for which said the specified font size is designated applied, is outputted for printing on the at least one physical page with at the standard font size entered by said instruction input means regardless of the information instructing designating the specified font size.

4. (Currently Amended) An apparatus according to claim 1, wherein:

said the standard font size is designatable by the document data are capable of designating the standard size font in said document data;

said analysis means calculates the a magnification change rate utilizing a base font size and the standard font size entered by said instruction input means; and

said drawing means executes the drawing process is-executed by applying said the magnification change rate to the entire character information contained in said the document data in such a manner that data representing a character or a character train, to which said the base font size is applied, is outputted for printing on the at least one physical page at with the standard font size entered by said instruction input means.

5. (Currently Amended) An apparatus according to claim 1, wherein:

said analysis means recognizes a the most frequent font size occurring in said the document data information; and

said drawing means executes a the drawing process in such a manner that data representing a character or a character train, to which said the most frequent font size recognized by said analysis means is applied, is outputted for printing on the at least one physical page at with the standard font size entered by said instruction input means.

6. (Currently Amended) An apparatus according to claim 1, wherein:

said analysis means recognizes a minimum font size in said the document data; and

said drawing means executes a the drawing process in such a manner that data representing character information in layout formatted for printing on the at least one physical page is outputted for printing on the at least one physical page at with a font size at least equal to

the standard font size entered by said instruction input means when said analysis means  
recognizes the minimum font size.

7. (Currently Amended) An apparatus according to claim 1, wherein:

said the document data includes at least an object data representing an image or a table  
and character information the character or the character train;  
said analysis means detects the size of an image represented by said the object data; and  
said drawing means executes a drawing process in such a manner that data representing  
an object held by an the image or a the table represented by said object data formatted to fit and  
be printed on the at least one can be accommodated in a physical page is outputted after said  
analysis means detects the size of the image and that a data representing the character or a the  
character train contained in the indicated by said character information contained in said  
document data is outputting for printing on the at least one physical page outputted with a at the  
standard font size entered by said instruction input means.

8. (Currently Amended) An apparatus according to claim 1, wherein:

said the document data includes at least an object data representing an image or a table  
and character information the character or the character train;  
said analysis means detects the size of an the image represented by the said object data;  
and  
said drawing means executes a the drawing process in such a manner that the image,  
when printed on the at least one physical page, represented by said object data is subjected to a

magnification change according to the width of the least one a physical page on which the image is to be printed and that a data representing the character or a the character train indicated by the character information contained in the said document data is outputted for printing on the at least one physical page with a at the standard font size entered by said instruction input means.

9. (Currently Amended) An apparatus according to claim 1, wherein said apparatus communicates with an arbitrary server apparatus for receiving and processing the said document data.

10. (Currently Amended) An apparatus according to claim 1, further comprising selection means for selecting a layout method of formatting the document data to be printed on the at least one physical page according to the an instruction of the user, wherein the a calculation method for calculating said a magnification change rate changing the magnification of the character or the character train is determined according to the result of the selection by said selection means.

11. (Currently Amended) An apparatus according to claim 1, further comprising a printing unit configured to print the document in accordance with the drawing process executed for outputting image data generated by said drawing means.

12. (Original) An apparatus according to claim 1, wherein said apparatus is a printer.

13. (Currently Amended) An image processing method for generating image data of a document by processing document data, representing the document, described in a predetermined structured description language, comprising:

an analysis step of analyzing said the document data and recognizing font size information contained in the document data, the font size information being information on the font size applied to a character or a character train contained in the document represented by the document data, and for recognizing the character or the character train in the document data to which the font size information is applied character information contained in said document data;

an instruction input step of entering information relating to a standard font size to be used for formatting the document data for printing on at least one ~~at the output of an image indicated by said document data by allotment to a physical page; and~~

a drawing step of executing a drawing process ~~in such a manner that a data representing the character or a the character train recognized by said analysis step is outputted for printing at with a the standard font size entered by said instruction input step, instead of the font size represented by the font size information contained in the document data.~~

14. (Currently Amended) A method according to claim 13, wherein:

said analysis step calculates a magnification change rate utilizing the font size information indicated by specified character information contained in said the document data, and information relating to the standard font size entered by said instruction input step; and

said drawing step executes a drawing process ~~in such a manner that data representing a character or a character train, indicated by said the~~ specified character information is outputted

for printing on the at least one physical sheet at with a font size changed with by the said magnification change rate calculated in said analysis step.

15. (Currently Amended) A method according to claim 13, wherein:

said the document data include information for designating a specified font size to for a  
specified character or a specified character train recognized by said analysis step; and  
said drawing step executes a the drawing process in such a manner that a data  
representing the character or a the character train, to for which said the specified font size is  
designated applied, is outputted for printing on the at least one physical page at with the standard  
font size entered by said instruction input step regardless of the information designating  
instructing the specified font size.

16. (Currently Amended) A method according to claim 13, wherein:

said the standard font size is designatable by the document data are capable of designating  
the standard size font in said document data;  
said analysis step calculates the a magnification change rate utilizing a base font size and  
the standard font size entered by said instruction input step; and  
said drawing step is executed by applying said the magnification change rate to the entire  
character information contained in said the document data in such a manner that data  
representing a character or a character train, to which said the base font size is applied, is  
outputted for printing on the at least one physical page at with the standard font size entered by  
said instruction input step.

17. (Currently Amended) A method according to claim 13, wherein:

said analysis step recognizes a minimum font size in said the document data; and

said drawing step executes a the drawing process in such a manner that data representing character information formatted for printing in layout on the at least one physical page is outputted for printing on the at least one physical page at with a font size at least equal to the standard font size entered by said instruction input step when said analysis step recognizes the minimum font size.

18. (Currently Amended) A method according to claim 13, wherein:

said the document data includes at least an object data representing an image or a table and the character or the character train and character information;

said analysis step detects the size of an the image represented by said the object data; and

said drawing step executes a the drawing process in such a manner that said object held by an data representing the image or a the table represented by said object data formatted to fit and be printed on the least one can be accommodated in a physical page is outputted after said analysis step detects the size of the image, and that a data representing the character or a the character train indicated by said character information contained in said the document data is outputted for printing on the at least one physical page at with a the standard font size entered by said instruction input step.

19. (Currently Amended) A method according to claim 13, wherein:

said the document data includes at least an object data representing an image or a table  
and the character or the character train information;  
said analysis step detects the size of an image represented by said the object data; and  
said drawing step executes a drawing process ~~in such a manner that the image, when~~  
~~printed on the at least one physical page, represented by said object data is subjected to a~~  
magnification change according to the width of ~~a the at least one physical page on which the~~  
~~image is to be printed and that a data representing the character or a the character train indicated~~  
~~by said character information contained in said the document data is outputted for printing on the~~  
~~at least one physical page at with a the standard font size entered by said instruction input step.~~

20. (Currently Amended) A method according to claim 13, further comprising an acquisition step of communicating with an arbitrary server apparatus for receiving and processing said the document data.

21. (Currently Amended) A method according to claim 13, further comprising a selection step of selecting a ~~layout~~ method of formatting the document data to be printed on the  
physical page according to ~~the an~~ instruction of the user, wherein ~~the a~~ calculation method for  
calculating a said magnification change rate changing the magnification of the character or  
character train is determined according to the result of the selection by said selection step.

22. (Currently Amended) A method according to claim 13, further comprising a printing step of printing the document in accordance with the drawing process executed in ~~outputting~~  
~~image data generated by~~ said drawing step.

23. (Original) A method according to claim 13, wherein said method is used in a printer.

24. (Currently Amended) A computer readable memory medium storing a program for causing a computer to execute an image processing method for generating image data of a document by processing document data representing the document and described in a predetermined structured description language, the method comprising:

an analysis step of analyzing said the document data and recognizing font size information contained in the document data, the font size information being information on the font size applied to a character or a character train contained in the document represented by the document data, and recognizing the character or the character train in the document represented by the document data to which the font size information is applied character information contained in said document data;

an instruction input step of entering information relating to a standard font size to be used for formatting the document data for printing on at least one at the output of an image indicated by said document data by allotment to a physical page; and

a drawing step of executing a drawing process in such a manner that data representing a the character or a the character train recognized by said analysis step is outputted for printing at

with a the standard font size entered by said instruction input step, instead of the font size represented by the font size information contained in the document data.

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38. (Currently Amended) An image processing method according to claim 19, further comprising a wherein said format process step for executes layout by scaling each character in the document information to a base character size when data representing the document is outputted for printing on the at least one physical page in said drawing step for allotment to the physical page, based on a font size designated in said print set information and a the standard font size inputted designated by said instruction input step resource.

39. (Currently Amended) A computer readable memory medium storing a program for causing a computer to execute an image processing method for processing document data information representing a document and described by a predetermined structured description language and executing a drawing process by communicating with an arbitrary server apparatus, the method comprising:

an instruction input step of entering print set information related to a standard font size to be used in formatting the document for drawing on at least one referred to in allotting an image indicated by said document information to a physical page or executing a printing process for drawing the document on the at least one physical page using the standard font size;

a transmission step of transmitting a reference print instruction including the print set information entered by said instruction input step to a designated server apparatus;

an acquisition step of acquiring, from said the designated server apparatus, the document data, which are acquired from an acquisition source indicated by the reference print instruction and processed by said the designated server apparatus, the acquired document data containing information on a font size of a character in the document represented by the document data; and

a drawing step of drawing the document represented by an image indicated by the document data acquired by said acquisition step from said the designated server apparatus at the standard font size entered by said instruction input step, instead of the font size represented by the font size information contained in the document data.

40. (Currently Amended) A computer readable memory medium storing a program for causing a computer to execute an image processing method in a server apparatus provided with storage means for storing document data representing a document and information described by a predetermined structured description language and adapted for controlling the transmission of the document data information described by a the predetermined structured description language by communicating with an arbitrary image processing apparatus, the method comprising:

an acquisition step of acquiring a resource required for formatting the document; logic layout;

a detection step of analyzing a reference print instruction acquired from any image processing apparatus and detecting print set information;

a format process step of formatting allotting the document data information searched stored in the from said storage means for printing on at least one to a physical page at a predetermined font size based on the print set information detected by said detection step and the resource acquired by said acquisition step regardless of information for designating a font size contained in the stored document data described by the predetermined structured description language or by the resource; and

a transmission step of transmitting the document data information, subjected to formatting layout by said format process step, to any image processing apparatus requesting the reference print instruction.

41. (Currently Amended) An image processing apparatus for generating image data of a structured document by processing document data, representing the structured document, described by a predetermined structured description language, comprising:

analysis means for analyzing said the document data and recognizing character information representing a character or a character train contained in the said document data; and drawing means for executing a drawing process in such a manner that a data representing the character or a the character train indicated by the character information recognized by said analysis means is outputted for printing on at least one physical page at with a predetermined font size regardless of information for designating a font size, set for said the character information in said the document data representing the structured document.

42. (Currently Amended) An apparatus according to claim 41, wherein:

~~said the~~ predetermined font size is entered by instruction input means of ~~the said~~ image processing apparatus;

the document data include information for designating a font size for a specific character or a specific character train recognized by said analysis means,

said analysis means calculates a magnification change rate based on the font size of ~~a the~~ specified character or ~~a the~~ specified character train and ~~a the~~ predetermined font size; and

said drawing means executes ~~a the~~ drawing process by changing the magnification of ~~said the~~ specified character or ~~the specified character train~~ with ~~said the~~ magnification change rate, in such a manner that ~~said data representing~~ the specified character or character train is outputted for printing on the at least one physical page at with ~~said the~~ predetermined font size, regardless of ~~the~~ information ~~information~~ for designating the font size, set for ~~said the~~ character information in ~~said the document data representing the~~ structured document.

43. (Currently Amended) An apparatus according to claim 41, wherein:

~~said the~~ document data include at least ~~an~~ object data representing an image;

the document data include information for designating a font size for a specific character or a specific character train recognized by said analysis means,

~~said data representing the~~ specified character or character train is outputted for printing on the at least one physical page at with ~~said the~~ predetermined font size; and

an the image represented indicated by the object data included in said the document data is subjected to a change in the magnification according to the sheet page size of the at least one physical page on which the image represented by the for outputting said object will be printed.

44. (Currently Amended) An apparatus according to claim 41, wherein the information designating said the font size and set for said a character in said the structured document is described by tag information designating the font size in HTML or XML.

45. (Currently Amended) An image processing method for generating image data of a structured document by processing document data, representing the structured document, described by a predetermined structured description language, comprising:

an analysis step of analyzing said the document data and recognizing character information including a character or a character train contained in said the document data; and  
a drawing step of executing a drawing process in such a manner that data representing a the character or a the character train indicated by the character information recognized by said analysis step is outputted for printing on at least one physical page at with a predetermined font size regardless of information for designating a font size, set for said the character information in the document data representing in said the structured document.